

EML 400 tuning

Front panel controls:

Clock slider all the way down

Vclk off

Tune midway

Coarse all the way down

Fine midway

Oscillator controllers all the way down

Filter controllers all the way down

Square wave on osc 1, Vol up half way

Osc 2 off

Filter tune and res midway

Filter tracking at 1

Use LP filter

Env VC off

0 attack

Max decay

Mod all the way down

Volume to taste

Stage panel:

Advance in push position

Center row in Quan position

Stage 1 at -1 octave, slide pot down at quantizer value 1

Stage 2 at +1 octave, Slide pot at quantizer value 13

3rd row first 2 stage pots at 0, 3rd stage up at max.

Patch between auto set and gated pulse.

Everything off on 2nd panel

With the panel tilted face first on the bench- board 1 is edge connected and the quantizer board. Boards 2,3,4 and 5 are flat and support the stages. Board 6 is the small board on the bottom, the VCA.

On board 1 while it's standing straight up, down on the +/- octave indicators but on the rear of the board are the octave adjust trim pots. "B" is closest to the bottom-rear corner(if the panel was upright) and "A" is directly above it.

On Board 3 foil side above the "EML 400-3" printing are 2 trim pots. "C" is the closest to the G,F,J foil markings and "D" is slightly further away.

"C" and "D" have the same function as the front panel "tune" control but "C" has a wider range than "D"

Now, left hand panel "set" then "OFF" to get the stage set. Connect a frequency counter or tuner to the HI output jack.

At the first stage adjust the "C" and "D" trim pots on board 3 for a frequency of 130.8 Hz. (C3)

Push the advance button to go to stage 2.

Adjust indicated trim pot on circuit board 2 for a frequency of 1046.5 Hz. (C6)

The "A" and "B" pots are used for the octave adjustments.

Logic panel octave switches:

Patch cord from Lin Quantizer out jack to Osc. Ext CV in. Put CV slide pot all the way up.

Set stage 1 to light 13, Octave -1

Set stage 2 to light 1, Octave 0

Adjust trim pot "A" so the pitch remains constant as you bounce between stages 1 and 2.

Set stage 1 to light 13, Octave 0

Set stage 2 to light 1, Octave +1

Bounce the stages and adjust trim pot “B” until the pitch remains the same.

5K trimmer on clock board is threshold for SKIP function.